

CLAIMS

What is claimed is:

5 1. A low profile transformer, comprising :
a bobbin ; and
a core structure, coupled to said bobbin, said core
structure further comprising :
an I-core ;
10 two U-cores, coupled to said I-core.

15 2. The transformer according to claim 1, wherein said bobbin
further comprises a primary coil, a secondary coil and a
plurality of pins formed thereon.

20 3. A low profile transformer, comprising :
a bobbin ; and
a core structure, coupled to said bobbin, said core
structure further comprising :
an I-core, having at least one recessed edge ;
two U-cores, coupled to said I-core, having at least one
protrusive edge ;
wherein said U-cores are coupled to said I-core by
means of said recessed edge and said protrusive edge.

25 4. The transformer according to claim 3, wherein said bobbin
further comprises a primary coil, a secondary coil and a
plurality of pins formed thereon.

30 5. The transformer according to claim 3, wherein said recessed

edge is formed on a terminal of said I-core.

6. The transformer according to claim 3, wherein said protrusive edge is formed on a terminal of said U-core.

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7. A low profile transformer, comprising :

· a bobbin ; and

· a core structure, coupled to said bobbin, said core structure further comprising :

10 an I-core, having at least one recessed edge ;

two U-cores, coupled to said I-core, having a plurality of protrusive edges ;

wherein said U-cores are coupled to said I-core by means of said recessed edge and said protrusive edges.

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8. The transformer according to claim 7, wherein said bobbin further comprises a primary coil, a secondary coil and a plurality of pins formed thereon.

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9. The transformer according to claim 7, wherein said recessed edge is formed on a terminal of said I-core.

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10. The transformer according to claim 7, wherein said recessed edges are formed on different surfaces of said U-core.

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11. The transformer according to claim 7, wherein said recessed edges are formed on the same surfaces of said U-core.

12. The transformer according to claim 7, wherein said recessed edges are formed on corners of said U-core.